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## SEARCH REQUEST FORM

Date: 10 Feb 03 Requester's Full Name: \_\_\_\_\_ Examiner #: S. DEVI  
Ext Unit: 1645 Phone (308) 9347 Serial Number: 09/699,224  
Results Format Preferred (circle): PAPER DISK E-MAIL

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To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: \_\_\_\_\_

Inventors (please provide full names): PETER A. RICE; SUNITA GULATI  
JUTAMAS NGAMPASUTADOL

Earliest Priority Date: 10-29-99

### Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the related species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, grandchild, divisional, or issued patent numbers) along with appropriate serial number.

Please ask MS. BEVERLY SHEARS to perform this search.

Please see attached claims with key words highlighted and/or Examples and synonyms provided.

Please include the following databases: Embase, Medline, Biosis, CA (Dialog 50), JAPIO, JICTEplus, Dialog 35, 65, 77, 144, 256, 266, 440, 348, 357, 113, 129, 130, 156 and 60.

Please perform an inventor's name search.

Point of Contact:  
Beverly Shears  
Technical Info. Specialist  
CM1 1E05 Tel: 308-4994

Thank you. ☺

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Please return the attached claims and ~~this~~ search request form along with the search reports.

Peptide mimetic  
Mimetic  
Mimotope

~~N. gonorrhoeae~~

1. A peptide mimic of a conserved gonococcal epitope not found on human blood group antigens, wherein said peptide mimic is capable of inducing in a mammal an immune response against said conserved gonococcal epitope.

2. The peptide mimic according to claim 1, wherein the amino acid sequence of the peptide mimic comprises the sequence DE\_GLF.

3. The peptide mimic according to claim 1, wherein the immune response is T-cell dependent.

4. The peptide mimic according to claim 1 or 2, wherein the amino acid sequence of the peptide mimic comprises cysteine residues at each terminus. CDE\_GLFC

5. The peptide mimic according to claim 4, wherein a cyclic peptide is formed through disulfide bridges between the cysteine residues at each terminus of said sequence.

6. The peptide mimic according to claim 5, wherein the peptide mimic further comprises at least one tail for coupling to a second agent.

10. The peptide mimic according to claim 1 or 2, wherein said peptide mimic competes with gonococcal LOS for binding to monoclonal antibody 2C7.

↓ Lipooligosaccharide

11. A peptide mimic which immunospecifically binds to an antibody that binds to an oligosaccharide epitope of *N. gonorrhoeae*, which oligosaccharide epitope is not present in human blood group antigens.

13. The peptide mimic according to claim 11, wherein the peptide mimic binds to a monoclonal antibody produced by immunizing a mammal with an anti-idiotypic monoclonal antibody, or fragment thereof, produced by a hybridoma cell line having the characteristics of HB 11311 as deposited with the ATCC.

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